

## REMARKS

By this Amendment, claims 1-13 are cancelled, and claims 14-22 are added. Thus, claims 14-22 are active in the application. Reexamination and reconsideration of the application are respectfully requested.

In view of the revisions to the claims, the title of the invention has been amended to "Demodulation and Synchronization Establishment Apparatus" in order to be more clearly directed to the claimed invention. Approval of the new title of the invention is respectfully requested.

The specification and abstract have been carefully reviewed and revised in order to correct grammatical and idiomatic errors in order to aid the Examiner in further consideration of the application. The amendments to the specification and abstract are incorporated in the attached substitute specification and abstract. No new matter has been added.

Also attached hereto is a marked-up version of the substitute specification and abstract illustrating the changes made to the original specification and abstract.

The Applicants thank the Examiner for acknowledging the Applicants' claim of foreign priority based on Japanese Patent Application No. 2000-288829, filed on September 22, 2000. The Examiner indicated, however, that a certified copy of the foreign priority document has not been filed. Accordingly, a certified copy of the foreign priority document is submitted concurrently herewith under a separate cover letter. The Applicants respectfully request the Examiner to acknowledge receipt of the certified copy of the foreign priority document.

In item 2 on page 2 of the Office Action, Figures 16-18 were required to be labeled as "Prior Art." Replacement formal drawings of Figures 1-18 are submitted concurrently herewith under a separate cover letter in order to label Figures 16-18 as "Prior Art" and to correctly spell the term "Receiver" (52) in Figure 15. Approval of the replacement formal drawings is respectfully requested.

In item 3 on page 3 of the Office Action, claims 1-3 and 6 were rejected under 35 U.S.C. § 102(b) as being anticipated by Nakamura (U.S. 5,703,914). Further, in item 4 on page 4 of the Office Action, claims 4-5 and 7-12 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Nakamura in view of Ejzak et al. (U.S. 6,069,883).

**AMENDMENTS TO THE DRAWINGS**

*Replacement formal drawings of Figures 1-18 are submitted concurrently herewith under a separate cover letter.*

These rejections are believed to be moot in view of the cancellation of claims 1-13. Furthermore, the Applicants respectfully submit that these rejections are inapplicable to new claims 14-22 for the following reasons.

The Applicants thank the Examiner for kindly indicating, in item 5 on page 7 of the Office Action, that claim 13 would be allowable if rewritten in independent form to include all of the limitations of the base claim and any intervening claims.

New claim 14 includes the limitations originally presented in cancelled claims 3 and 13. New claim 17 includes the limitations originally presented in cancelled claims 4 and 13. New claim 20 includes the limitations originally presented in cancelled claims 5 and 13.

As acknowledged by the Examiner in item 6 on page 8 of the Office Action, Nakamura clearly does not disclose or suggest the unwrap circuit, the second adder, the polarity bit converter, the change point extraction circuit, the change point measurement circuit, and the clock synchronization establishment circuit, as recited in cancelled claim 13.

Accordingly, by including all of the limitations of cancelled claim 13 in new claim 14, the Applicants respectfully submit that new claim 14 is clearly patentable over the prior art of record.

Furthermore, the Applicants submit that Ejzak et al. fails to cure the Examiner-acknowledged deficiencies of Nakaalso for failing to disclose or suggest the above-described limitations of cancelled claim 13.

Accordingly, by including all of the limitations of cancelled claim 13 in each of new claims 17 and 20, the Applicants respectfully submit that new claims 17 and 20 are also patentable over the prior art of record.

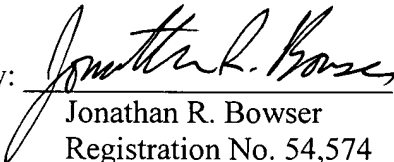
Therefore, it is submitted that the new claims 14, 17 and 20, as well as new claims 15-16, 18-19 and 21-22 which depend therefrom, are clearly allowable over the prior art as applied by the Examiner.

In view of the foregoing amendments and remarks, it is respectfully submitted that the present application is clearly in condition for allowance. An early notice thereof is respectfully solicited.

If, after reviewing this Amendment, the Examiner feels there are any issues remaining which must be resolved before the application can be passed to issue, the Examiner is respectfully requested to contact the undersigned by telephone in order to resolve such issues.

Respectfully submitted,

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